PATENT COOPERATION TREATY

PCT Application PCT/CN2004/000458

	PATENT COOPERATION TO	
·	PCT	
REC'D 0 5 OCT 2005	THERNATIONAL PRELIMINARY REPORT OF (Chapter II of the Patent Cooperation) (PCT Article 36 and Rule 70))
Applicant's or agent's CPS4 International applicat PCT/CN26 International Patent IPC7: C12N15/86	FOR FURTHER ACTION FIGURE 1234 International filing date (day/month/yellow) 1004/000458 Classification (IPC) or national classification and IPC 1004/1004/1004/1004/1004/1004/1004/1004	See Form PCT/IPEAGATO Priority date (day/month/year) 10.MAY.2003 (10.05.2003)
2. This REPO 3. This repo a. b. [sheets which supersede earlier sheets, but which supersede earlier sheets, but which the disclosure in the international application as filed, Box. (sent to the International Bureau only) a total of (in containing a sequence listing and/or tables related thereto, containing a sequence Listing (see Section 802 of the Admir	sheets, as follows: have been amended and are the basis of this report and, rity (see Rule 70.16 and Section 607 of the Administrat authority considers contain an amendment that goes bey as indicated in item 4 of Box No. I and the Supplemental dicate type and number of electronic
Date	Box No. II Priority Box No. II Non-establishment of opinion with regard Box No. IV Reasoned statement under Article 35(2) with the statement of the statement o	to novelty, inventive step and industrial applicability th regard to novelty, inventive step or industrial applicability a statement cation al application Date of completion of this report 06.Sep-2005(06.09-2005) Authorized officer KE,Ke

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International application No. PCT/CN2004/000458

Box No. I Basis of the report						
1. With regard to the language, this report is based on:						
	\boxtimes	the international application in the language in which it was filed				
		a trans	ation of the international application into	. v	which is the language of a	
			on furnished for the purposes of:	, , .		
l			national search (Rules 12.3(a) and 23.1(b))			
			ication of the international application (Rule 12.4)	(a))		
l			national preliminary examination (Rules 55.2(a) a			
			manonal promining examination (Rules 33.2(a) a	uldor 55.5(a))		
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
i			national application as originally filed/furnished			
	\boxtimes	the desc	ription:			
		pages		· · · · · · · · · · · · · · · · · · ·	as originally filed/furnished	
		pagės *	1-12	received by this Authority on	19.Nov.2004	
		pages *		received by this Authority on		
	⊠ •	the claims:				
	2 3.	claims				
		claims		as amonded (together w	as originally filed/furnished	
		claims			ith any statement)under Article 19	
		claims		_ received by this Authority on	19.Nov.2004	
		Ciainis		received by this Authority on		
	\boxtimes	the draw	ngs:			
		pages			as originally filed/furnished	
		pages *	1-11	received by this Authority on	19.Nov.2004	
		pages *		received by this Authority on		
	(2)					
	X	a sequenc	e listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence I	Listing.	
3.	П	The amen	dments have resulted in the cancellation of:			
.						
	the claims, Nos.					
	the drawings, sheets/figs					
	the sequence listing (specify):					
		an	y table(s) related to sequence listing (specify):			
4 6	٦.				d	
4. [has been established as if (some of) the amendment have been considered to go beyond the disclared			
			y have been considered to go beyond the disclosur		oplemental Box (Rule 70.2(c)).	
			description, pages			
					<u> </u>	
			e sequence listing (specify):			
	<i>-</i> .		y table(s) related to sequence listing (specify):			
* If item 4 applies, some or all of those sheets may be marked "superseded."						
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International application No. PCT/CN2004/000458

Statement:			
Novelty (N)	Claims	4-8	YES
	Claims	1-3,9	NO NO
Inventive step (IS)	Claims		YES
·	Claims	1-9	МО
Industrial applicability (IA)	Claims	1-9	. YES
	Claims		NO

Citations and explanations (Rule 70.7)

The document as followed is cited by the report:

Document 1(D1):THE JOURNAL OF GENE MEDICINE 2000,2 (6), 426-432,

Toshiro Shirakawa et al:P53 Adenoviral vector(Ad-CMV-p53) induced prostatic growth inhibition of primary cultures of human prostate and an experimental rat model.

Document 2(D2):CN1401778A 12.03.2003

About novelty:

D1 has disclosed that the recombinant of adenoviral vector and p53 can be used in the treatment of prostatic hyperplasia. Prostatic hyperplasia is a kind of proliferative disease. So the technical solution of claim 1 has been disclosed by D1. Claim 1 don't appear to be novel and don't appear to meet the criteria mentioned in article 33(2) PCT.

Claims 2,3,9 are dependent claims of claim 1. The additional technical features of these claims have been disclosed in D1(such technical features lie in "production of recombinant adenoviruses" and "in vivo experimental design" of "materials and methods" of D1). Thus claims 2,3,9 don't appear to be novel and don't appear to meet the criteria mentioned in article 33(2)PCT.

The technical solutions of claims 4-8 aren't disclosed .Thus, claims 4-8 possess novelty and meet the criteria mentioned in article 33(2)PCT.

About inventiveness:

Claims 4,5 are dependent claims of claim 1. The additional technical features of them are the products defined by the preparation method. Though D1 didn't disclosed the preparation method of the recombinant in detail, D2 disclosed the recombinant which was prepared by the same method as that of claims 4-5(see the claims). There is no substantive difference between the products of D1 and D2. It's easy for the person skilled in the relevant field of technology to realize that such similar products have the same use. So it's obvious for the person skilled in the relevant field of technology to obtain the technical solutions of claims 4-5 through combination of D1 and D2. Thus, claims 4 and 5 don't appear to be inventive and don't appear to meet the criteria mentioned in article 33(3)PCT.

Claims 6-8 are dependent claims of claim 1. The additional technical features of them are the types of proliferative diseases. Because these proliferative diseases have similar pathogenesis with prostatic hyperplasia, the technical solutions of claims 6-8 are obvious to the person skilled in the relevant field of technology in light of D1. Claims 6-8 don't appear to be inventive and don't appear to meet the criteria mentioned in article 33(3)PCT.

About industrial applicability:

Claims 1-9 can all be used in treatment of diseases and possess industrial applicability. They all meet the criteria mentioned in article 33(4)PCT.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CN2004/000458

Supplemental Box Relating to Sequence Listing				
Continuation of Box No. I, item 2:				
1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this report was established on the basis of:				
a. type of material				
a sequence listing				
table(s) related to the sequence listing				
b. format of material				
on paper				
in electronic form				
c. time of filing/furnishing				
contained in the international application as filed				
filed together with the international application in electronic form				
furnished subsequently to this Authority for the purposes of search and/or examination				
received by this Authority as an amendment on 19.Nov.2004				
2. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed				
or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the				
application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
3. Additional comments:				
·				
·				
*If item 4 in Box No.I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, may be marked "superseded."				

Form PCT/IPEA/409 (Supplemental Box Relating to Sequence Listing) (April 2005)